

PCT

RAW SEQUENCE LISTING

DATE: 07/05/2001

PATENT APPLICATION: US/09/763,590

TIME: 15:49:43

Input Set : A:\48530059.app

Output Set: N:\CRF3\07032001\I763590.raw

3 <110> APPLICANT: TAIRA, KAZUNARI
 4 OHKAWA, JUN
 5 KOSEKI, SHIORI
 7 <120> TITLE OF INVENTION: EXPRESSION SYSTEMS FOR TRANSCRIPTION OF FUNCTIONAL
 8 NUCLEIC ACIDS
 10 <130> FILE REFERENCE: 04853.0059-00000
 12 <140> CURRENT APPLICATION NUMBER: 09/763,590
 C--> 13 <141> CURRENT FILING DATE: 2001-06-05
 15 <150> PRIOR APPLICATION NUMBER: PCT/JP99/04718
 16 <151> PRIOR FILING DATE: 1999-08-31
 18 <150> PRIOR APPLICATION NUMBER: JP 10/244755
 19 <151> PRIOR FILING DATE: 1998-08-31
 21 <160> NUMBER OF SEQ ID NOS: 25
 23 <170> SOFTWARE: PatentIn Ver. 2.1
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 135
 27 <212> TYPE: RNA
 28 <213> ORGANISM: Artificial Sequence
 30 <220> FEATURE:
 31 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
 32 sequence of Rz2
 34 <400> SEQUENCE: 1
 35 accguugguu uccguagugu agugguuauc acguucgccu aacacgcgaa aggucccccgg 60
 36 uucgaaaccg ggcacuacaa acacaacacu gaugaggacc gaaagguccg aaacggggcac 120
 37 qucgaaacg guuuu 135
 40 <210> SEQ ID NO: 2
 41 <211> LENGTH: 141
 42 <212> TYPE: RNA
 43 <213> ORGANISM: Artificial Sequence
 45 <220> FEATURE:
 46 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
 47 sequence of Rz3
 49 <400> SEQUENCE: 2
 50 accguugguu uccguagugu agugguuauc acguucgccu aacacgcgaa aggucccccgg 60
 51 uucgaaaccg ggcacuacaa accaacaacac aacacugaug aggaccgaaa gguccgaaac 120
 52 ggcacgucg gaaacgguuu u 141
 55 <210> SEQ ID NO: 3
 56 <211> LENGTH: 128
 57 <212> TYPE: RNA
 58 <213> ORGANISM: Artificial Sequence
 60 <220> FEATURE:
 61 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
 62 sequence of Rz1
 64 <400> SEQUENCE: 3
 65 accguugguu uccguagugu agugguuauc acguucgccu aacacgcgaa aggucccccgg 60
 66 uucgaaaccg ggcaccaca caacacugau gaguccguga ggacgaaacg ggcaccucga 120
 67 gcgcuuuu 128

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/763,590

DATE: 07/05/2001

TIME: 15:49:43

Input Set : A:\48530059.app

Output Set: N:\CRF3\07032001\I763590.raw

```

70 <210> SEQ ID NO: 4
71 <211> LENGTH: 95
72 <212> TYPE: RNA
73 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
77     sequence of the transcript of human placental tRNA Val
79 <400> SEQUENCE: 4
80 accguugguu uccguagugu agugguuauc acguucgccu aacacgcgaa aggucccccgg 60
81 uucgaaaccg ggcggaaca aagacagucg cuuuu                               95
84 <210> SEQ ID NO: 5
85 <211> LENGTH: 149
86 <212> TYPE: RNA
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
91     sequence of Rz4
93 <400> SEQUENCE: 5
94 accguugguu uccguagugu agugguuauc acguucgccu aacacgcgaa aggucccccgg 60
95 uucgaaaccg ggcacccggg uggcugucac cggaagugcu uuccggucuc augaguccgu 120
96 gagggcgaaa cagccacucg agcgcuuuu                               149
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 110
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
106     sense oligonucleotide linker
108 <400> SEQUENCE: 6
109 aattcaggac tagtctttta ggtcaaaaag aagaagcttt gtaaccgttg gtttccgtag 60
110 tqtatgggtt atcacgttcg cctaacacgc gaaaggtccc cggttcgaag           110
113 <210> SEQ ID NO: 7
114 <211> LENGTH: 113
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of an
120     antisense oligonucleotide linker
122 <400> SEQUENCE: 7
123 tcgacttcga accggggacc ttctcgtgt taggcgaacg tgataaccac tacactacgg 60
124 aaaccaacgg ttacaaagt tcttcttctt ttgacctaa aagactagtc ctg           113
127 <210> SEQ ID NO: 8
128 <211> LENGTH: 53
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
134     sense oligonucleotide linker
136 <400> SEQUENCE: 8

```

RAW SEQUENCE LISTING

DATE: 07/05/2001

PATENT APPLICATION: US/09/763,590

TIME: 15:49:43

Input Set : A:\48530059.app

Output Set: N:\CRF3\07032001\I763590.raw

```

137 cgaaaccggg caccgggga atataacctc gagcgctttt tttctatcgc gtc          53
140 <210> SEQ ID NO: 9
141 <211> LENGTH: 54
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of an
147     antisense oligonucleotide linker
149 <400> SEQUENCE: 9
150 tcgacgcgat agaaaaaaag cgctcgaggt tatattcccc gggtgcccgg ttcc          54
153 <210> SEQ ID NO: 10
154 <211> LENGTH: 23
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of an
160     upper primer
162 <400> SEQUENCE: 10
163 cgccagggtt tcccagtcac gac          23
166 <210> SEQ ID NO: 11
167 <211> LENGTH: 101
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
173     lower primer including the sequences of Rzl and a
174     terminator
176 <400> SEQUENCE: 11
177 ctgcaggtcg acgcgataga aaaaaagcgc tcgaggtgcc cgtttcgtcc tcacggactc 60
178 atcagtgttg tgtgggtgcc cggtttcgaa ccgggacctt t          101
181 <210> SEQ ID NO: 12
182 <211> LENGTH: 109
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
188     lower primer including the sequences of Rz2 and a
189     terminator
191 <400> SEQUENCE: 12
192 ctgcaggtcg acgcgataga aaaaaaccgt ttccgacgtg cccgtttcgg tcctttcggg 60
193 cctcatcagt gttgtgttg tagtgcccgg ttccgaaccg gggaccttt          109
196 <210> SEQ ID NO: 13
197 <211> LENGTH: 106
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
203     lower primer including the sequences of Rz3 and a
204     terminator

```

RAW SEQUENCE LISTING

DATE: 07/05/2001

PATENT APPLICATION: US/09/763,590

TIME: 15:49:43

Input Set : A:\48530059.app

Output Set: N:\CRF3\07032001\I763590.raw

```

206 <400> SEQUENCE: 13
207 ctgcaggtcg acgcgataga aaaaaaccgt ttccgacgtg cccgtttcgg tcctcatcag 60
208 tqtgtgtgtg tggttttag tagcccggtt cgaaccggg accttt 106
211 <210> SEQ ID NO: 14
212 <211> LENGTH: 40
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
218 probe specific for the reference RNA
220 <400> SEQUENCE: 14
221 aaatcgctat aaaaagcgct cgaggttatg ctccccgggt 40
224 <210> SEQ ID NO: 15
225 <211> LENGTH: 16
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
231 probe specific for the ribozyme
233 <400> SEQUENCE: 15
234 ctcatctgtg ttgtgt 16
237 <210> SEQ ID NO: 16
238 <211> LENGTH: 20
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
244 primer for b-actin
246 <400> SEQUENCE: 16
247 gtggccatct cttgctcgaa 20
250 <210> SEQ ID NO: 17
251 <211> LENGTH: 18
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
257 primer for the ribozyme
259 <400> SEQUENCE: 17
260 gacctttcgg tcctcatc 18
263 <210> SEQ ID NO: 18
264 <211> LENGTH: 20
265 <212> TYPE: DNA
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of an
270 upper oligonucleotide primer
272 <400> SEQUENCE: 18
273 gactacctca tgaagatcct 20
276 <210> SEQ ID NO: 19

```

RAW SEQUENCE LISTING

DATE: 07/05/2001

PATENT APPLICATION: US/09/763,590

TIME: 15:49:43

Input Set : A:\48530059.app

Output Set: N:\CRF3\07032001\I763590.raw

```

277 <211> LENGTH: 20
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
283     lower oligonucleotide primer
285 <400> SEQUENCE: 19
286 gtggccatct cttgctcgaa                                20
289 <210> SEQ ID NO: 20
290 <211> LENGTH: 18
291 <212> TYPE: DNA
292 <213> ORGANISM: Artificial Sequence
294 <220> FEATURE:
295 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of an
296     upper oligonucleotide primer
298 <400> SEQUENCE: 20
299 gttatcacgt tcgcctaa                                18
302 <210> SEQ ID NO: 21
303 <211> LENGTH: 18
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
309     lower oligonucleotide primer
311 <400> SEQUENCE: 21
312 gacctttcgg tcctcatc                                18
315 <210> SEQ ID NO: 22
316 <211> LENGTH: 18
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
322     probe specific for the ribozyme
324 <400> SEQUENCE: 22
325 acqcgaaagg tccccggt                                18
328 <210> SEQ ID NO: 23
329 <211> LENGTH: 19
330 <212> TYPE: DNA
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <223> OTHER INFORMATION: Description of Artificial Sequence: Sequence of a
335     probe specific for b-actin
337 <400> SEQUENCE: 23
338 gcqgggaaaat cgtgcgtga                                19
341 <210> SEQ ID NO: 24
342 <211> LENGTH: 38
343 <212> TYPE: RNA
344 <213> ORGANISM: Artificial Sequence
346 <220> FEATURE:

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/763,590

DATE: 07/05/2001

TIME: 15:49:44

Input Set : A:\48530059.app

Output Set: N:\CRF3\07032001\I763590.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date